## FLUORESCENT MATERIAL

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## Abstract

PURPOSE To provide a novel fluorescent material consisting of lanthanum thiogallate doped with cerium, emitting green light by electron rays or ultraviolet rays excitation, having excellent light-emitting characteristics, and suitable for the fluorescent material of a flying spot tube, an index tube, etc. CONSTITUTION: For example, La2S3 is mixed with equimolar amount of Ga2S3, and a cerium compound is added to the mixture as an activating agent. The composition is calcined in a sulfurating atmosphere such as H2S at 800-950 deg C to obtain the objective fluorescent material. The starting materials are not restricted to the above sulfides, and the oxides such as La2S3, Ga2O3, CeO2, etc. may be used. The light-emitting

characteristics of the fluorescent material can be further improved by using a slightly excess Ga2S3 in the

mixing of La2S3 and Ga2S3.

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(54) FLUORESCENT MATERIAL

## (57) Abstract:

PURPOSE: To provide a novel fluorescent material consisting of lanthanum thiogallate doped with cerium, emitting green light by electron rays or ultraviolet rays excitation, having excellent light-emitting characteristics, and suitable for the fluorescent material of a flying spot tube, an index tube, etc. CONSTITUTION: For example, La2S3 is mixed with equimolar amount of Ga2S3, and a cerium compound is added to the mixture as an activating agent. The composition is calcined in a sulfurating atmosphere such as H2S at 800W950°C to obtain the objective fluorescent material. The starting materials are not restricted to the above sulfides, and the oxides such as La2S3, Ga2O3, CeO2, etc. may be used. The light-emitting characteristics of the fluorescent material can be further improved by using a slightly excess Ga2S3 in the mixing of La2S3 and Ga2S3.